

# ACTION!

## User Manual

Any company, product or service names found in this document may be the trademarks or registered trademarks of their respective companies.

# About Action!

## Action! - Record everything

Thank you for choosing Action! product..  
Action! allows real-time recording/capture of Windows Aero desktop in a superb HD video quality. With Action! you can benchmark and display game framerates, record your gameplay, add live audio commentary to create high quality tutorials... and more!

Action! is compact, stylish and user friendly.  
With outstanding performance and sleek design Action! defines a new standard of user experience for real-time gameplay and desktop recording software.



# TABLE OF CONTENTS

Minimum system requirements.....	4	Benchmarking.....	22
Recommended system requirements.....	5	Capture Screenshots.....	23
Installation.....	6	Export recordings.....	24
Product activation.....	7	Exporting to YouTube.....	27
User Interface - Action! HUD.....	8	Exporting to Facebook.....	28
User Interface - Action! window overview.....	9	General Settings.....	29
User Interface - Action! tabs.....	10	Video Recordings Settings.....	30
Video Recording - Introduction.....	11	Webcam Settings.....	31
Games and applications recording.....	13	Audio Settings.....	32
Active Aero desktop recording.....	14	HUD Settings.....	33
Active Aero desktop region recording.....	15	Export Settings.....	34
Selected applications window recording.....	16	Hotkeys Settings.....	35
Web videos recording in 60fps.....	17	Action! Remote Control Application.....	36
Web videos recording with Perfect Video Match mode.....	18	Default Hotkeys.....	37
Adding Webcams to video recordings.....	19	Operating Systems Restrictions.....	38
Audio recording.....	20	Troubleshooting.....	39
Video & audio recordings playback.....	21	Technical and Customer Support.....	40

# MINIMUM SYSTEM REQUIREMENTS

## OPERATING SYSTEM

Windows Vista®, Windows 7, Windows 8  
DirectX® and latest graphics card drivers

*Windows Aero enabled for desktop recording on Windows Vista and Windows 7*

*Running Action! requires administrator rights.*

## RAM MEMORY

512MB

## GRAPHICS CARD REQUIREMENTS

Direct3D 9.0 compatible with Pixel Shader 2.0 support

## SOUND CARD

DirectX® compatible

## CPU

Intel® Celeron® 1.4GHz or equivalent processor  
(SSE2 required)

# RECOMMENDED SYSTEM REQUIREMENTS

## OPERATING SYSTEM

Windows Vista®, Windows 7, Windows 8  
DirectX® and latest graphics card drivers

*Windows Aero enabled for desktop recording on Windows Vista and Windows 7*

*Running Action! requires administrator rights.*

## RAM MEMORY

1024MB (1GB)

## GRAPHICS CARD REQUIREMENTS

Full Direct3D 10.0 compatible with Pixel Shader 4.0 support

## SOUND CARD

DirectX® compatible

## CPU

Intel® Core™ 2 Duo 2.0GHz or equivalent processor

## HARDWARE ACCELERATED VIDEO RECORDING

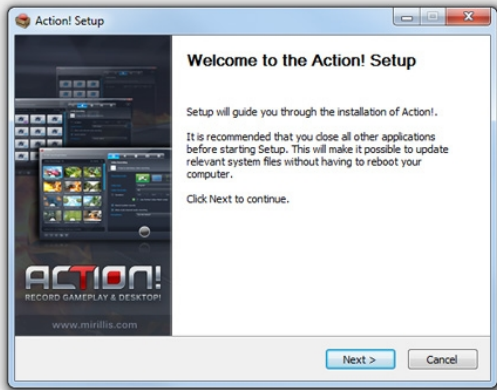
### DIRECTLY TO MP4 FILE FORMAT

Intel® processor with Intel® Quick Sync Video support.  
The latest Intel graphics drivers.

### HARDWARE ACCELERATED VIDEO ENCODING FOR EXPORT PROCESS

Intel® Sandy Bridge processor with Intel® Quick Sync Video support.  
NVIDIA® graphics card with NVIDIA® CUDA support.

# INSTALLATION



Action! Installer

## Installation

Please remember to use Action! installation file from a trusted source (Mirillis website or box version disc). Run Action! installation file and follow the instructions on the screen. Action! installation should take a minute or two.

## Trial version

After installation Action! will be available as a 30-day trial and all video recordings will include a watermark. Product activation is required to remove the watermark and continue using the application after trial period.

For Action! activation instructions please see page 7.

## Video playback

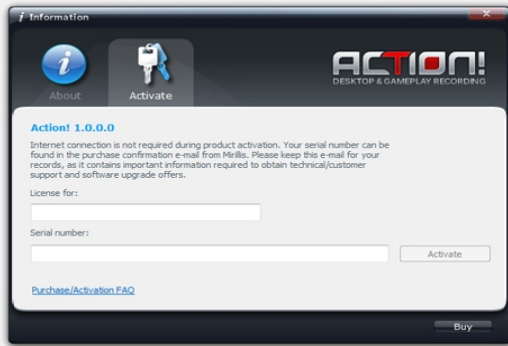
Action! includes internal basic player dedicated for video recordings playback.

To playback Action! video recordings in AVI and MP4 file format you can also use one of Splash media players. Splash PRO and Splash PRO EX provide additional features like SmartSeek, Audio boost, Screen capture and more. All Splash products are available for download at Mirillis website:

<http://mirillis.com/en/downloads/>

For more information please see chapter ***Video and audio recordings playback*** on page 20.

# PRODUCT ACTIVATION



“About” window – “Activate” tab

## Serial Number

A trial version of Action! can be activated to full version with a product serial number.

### BOX VERSION


Serial number is included in the box.

### ELECTRONIC VERSION

You can also purchase Action! product online to get a serial number. Valid e-mail address will be required for product purchase. Action! is available for purchase at Mirillis online store:

<http://mirillis.com/en/store/>

## Product activation

Click activation button  to open “About” window, select “Activate” tab and enter your name/nickname and product serial number. Please make sure that you have entered the product serial number correctly. Click “Activate” button.

If you have any questions or problems with Action! activation please read Purchase/Activation FAQ on Mirillis website or contact us at [support@mirillis.com](mailto:support@mirillis.com)

*Remember to keep your serial number safe!*

# USER INTERFACE - ACTION! HUD (Head-up display)

## About Action! HUD

The Action! user interface consists of 2 parts: **Action! window** and **HUD**. HUD is displayed when Action! is connected to your desktop, games or applications and provides following information:

- 1) current framerate
- 2) average framerate
- 3) 3D engine detected
- 4) status icon
- 5) progress bar (available for time limited recordings)



## HUD display position

When Action! is running you can adjust HUD display position to your needs with **F7** hotkey. Please note that changing HUD display position with a hotkey does not change “HUD Startup Position” setting. To change “HUD Startup Position” please check HUD display settings.








You can hide/show Action! HUD with **F6** hotkey.

## Reset average framerate

Average framerate value can be easily reset with **F5** hotkey.

## Status icons

Action! HUD provides information about Action! status for respective desktops, games and applications:

-  Normal status for active desktop, game or application
-  Normal status for not active desktop, game or application
-  Recording in progress
-  Recording paused
-  Benchmarking in progress
-  Capturing screenshot
-  Detecting framerate



# USER INTERFACE - ACTION! WINDOW OVERVIEW



## Action! Tabs

### 1. Tabs panel

Action! tabs provide access to all Action! features: video recording, audio recording, benchmarking, capturing screenshots and Action! settings.

### 2. Options panel

All options available for selected tab.

## Action! Manager

### 3. Output folder

Allows to change output folder for recordings, benchmarks and screenshots.

### 4. List of recordings, benchmarks and screenshots

All your recordings available in selected output folder.

### 5. Manager buttons

Buttons to manage your recordings.

# USER INTERFACE - ACTION! TABS



## Video Recording

Video Recording tab provides all basic options for desktop, gameplay and applications recording. Use the manager to play, delete or export your recordings.



## Audio Recording

Audio Recording tab provides all options for audio recording functionality. With audio recordings manager you can play and delete your recordings.



## Benchmarking

Benchmarking tab provides options for games and applications benchmarking. With the manager you can preview and delete benchmarks saved on your hard disk.



## Capture Screenshots

Capture Screenshots tab provides options for capturing screenshots. Use the manager to preview and delete screenshots saved on your hard disk.



## Settings

Settings tab provides access to several Action! settings categories:

- General Settings
- Video Recording Settings
- Audio Settings
- HUD Settings
- Export Settings
- Hotkeys Settings



## Activation button

Use Activation button to activate Action! with product serial number.



## About button

This button is available after product activation and provides basic information about activation status and current product version.

# VIDEO RECORDING - INTRODUCTION

## Video recording

With Action! you can record your gameplay, desktop and applications in a superb HD video quality. For recorded video playback instructions please see chapter *Video and audio recordings playback* on page 20.



Action! window  
Video recording tab







## Recordings manager

### List of video recordings

List of recordings contains thumbnail view of all Action! video recordings from selected folder. Use mouse double click on a thumbnail to start selected video playback.

### Manager buttons

The manager contains several buttons providing access to following actions:

-  Delete selected recording(s)
-  Start playback of selected video
-  Open output folder
-  Export selected video
-  Export selected video to Facebook
-  Export video to YouTube

## Video recording options

### File format

**AVI** - very high video quality, using Mirillis proprietary FICV video codec

**MP4 (Intel Quick Sync Video)** - hardware accelerated video recording using H.264/AVC, small file size

**MP4 (480p)** - software video recording using H.264/AVC, small file size

### Video size

This option allows to select output video recording resolution. This setting does not work for:

Windows 7/8 Aero desktop recording  
OpenGL applications recording  
In the above cases recordings can only be done in *Original* resolution.

# VIDEO RECORDING - INTRODUCTION

## Video framerate

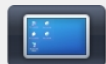
Allows to select video recording framerate.

## Recording mode

Recording modes available:



**Games & applications**



**Active desktop**



**Active desktop region**



Game view with Action! HUD  
Games & applications mode

## Perfect Video Match Mode

This mode is dedicated to record web videos and videos from various media players. Please see chapter **Web videos recording with Perfect Video Match** mode on page 18 for more information

## Duration

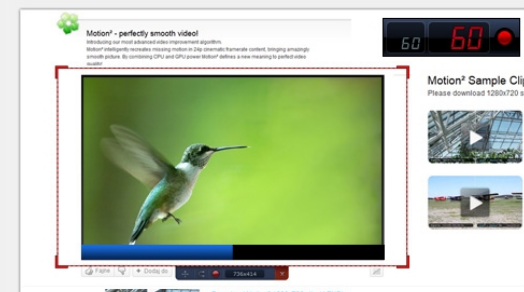
Allows to limit your recording time to a specific duration.



Action! HUD on desktop  
Active desktop mode

## Audio options

Audio options allow to enable or disable system audio recording, select to record multichannel or stereo audio and enable microphone to add live audio commentary during video recording. Microphone volume and mixing options are available in Action! Settings/Audio.



Action! HUD and region selection  
Active desktop region mode

# GAMES & APPLICATIONS RECORDING


## Introduction

Games & applications recording mode is dedicated to record gameplay and other DirectX or OpenGL applications. This mode allows for multiple simultaneous recordings. For the best performance it is recommended to perform only one recording at a time.



Action! window  
Gameplay recording in progress


## Recordings options

Select **Games & applications**  recording mode to let Action! automatically select DirectX and OpenGL games and applications for recording. When this mode is selected Action! HUD will be displayed in all supported games and applications.



Game view with Action! HUD  
Gameplay recording in progress

## Start recording

Application recording button  is not available for Games & applications recording mode. Use **F9** hotkey to start recording, stop video recording by pressing **F9** hotkey again. Please note that game or application must be active to start or stop video recording.

To pause / resume video recording use **Shift+F9** hotkey.

## Action! HUD

If you do not want to include HUD in recordings please check **Do not record HUD in games and applications** option in Settings/HUD or hide HUD before recording start with **F6** hotkey.



# ACTIVE AERO DESKTOP RECORDING


## Introduction

**Windows Aero desktop must be enabled to perform desktop recording.** Active desktop recording mode allows to record everything that happens on your desktop: all applications, all windows and user actions. You can record live audio commentary and create tutorials with ease.



Action! window  
Active desktop recording in progress

## Recordings options

To record your desktop please select **Active desktop**  recording mode.


## Select active desktop

For multi-display setup Action! allows to select which desktop will be recorded. Use **F8** hotkey to select active desktop.



Desktop view with Action! HUD  
Active desktop recording in progress

## Start recording

Press start recording icon  or press **F9** on keyboard to start desktop video recording. You can stop video recording by pressing recording icon or **F9** hotkey again.

To pause / resume video recording use **Shift+F9** hotkey.



## Action! HUD

If you do not want to include Action! HUD in recordings please check **Hide HUD during desktop recording** option in Settings/HUD or hide HUD manually before recording start with **F6** hotkey.

# ACTIVE AERO DESKTOP REGION RECORDING

Important: Windows Aero desktop must be enabled to perform desktop recording.


## Recordings options

To record desktop region please select **Active desktop region**  recording mode. This mode switches Action! window to region recording mode. If you wish to switch back to main Action! window press **Close region recording mode** button .

## Select active desktop

For multi-display setup Action! allows to select which desktop region will be recorded. Use **F8** hotkey to select active desktop.


## Select region

Use mouse to adjust your region size and position. Click and hold mouse button on  icon to move region. You can precisely control region size and position with keyboard: use **arrows** to move region, use **SHIFT + arrows** to resize region.


Green region frame indicates that region is accepted and Action! is ready to start recording. Grey frame indicates that current region cannot be recorded. Region cannot be recorded when it includes area of 2 different desktops.

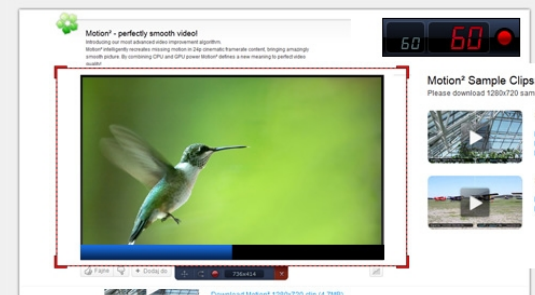
Enable **Snap to windows**  option to easily fit region to applications windows.

## Start recording

Press start recording icon  or press **F9** on keyboard to start desktop region video recording. Region frame turns red during recording process.

## Capture screenshots


Press capture screenshot icon  or press **F12** on keyboard.




Desktop region recording in progress


# SELECTED APPLICATIONS WINDOW RECORDING

## Introduction


With **Active desktop region**  recording mode you can easily record selected applications windows.


## Recordings options

To record selected application window area please select **Active desktop region**  recording mode.


This mode switches Action! window to region recording mode. If you wish to switch back to main Action! window press **Close region recording mode** button  .

## Selecting window

In region recording mode please enable **Snap to windows**  option (hotkey: **S**) to easily fit region to applications windows.

Move mouse cursor over applications windows and region will automatically match application window area. If you need to adjust your region size or position click  or press **S** hotkey to disable **Snap to windows** and adjust your region using mouse or keyboard.

## Start recording

Press start recording icon  or press **F9** on keyboard to start active desktop region video recording. Region frame turns red during recording process. You can stop video recording by pressing recording icon or **F9** hotkey again.



Selecting application window with **Snap to window** option enabled



# WEB VIDEOS RECORDING IN 60FPS

## Introduction

With Action! you can record videos from websites and other applications in real-time. Action! allows to record videos from defined display region, selected application window or in fullscreen mode.

For the best results it is recommended to record videos in following ways:


with **Video framerate** set to 60 in Action! **Video Recording** settings with **Video framerate** set to original source video framerate


## Recordings options


### Video framerate

To record videos with 60fps please set **Video framerate** value to 60.


### Recording mode

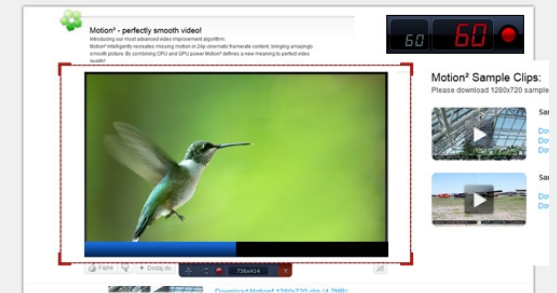
For fullscreen video recording it is recommended to set **Active desktop**  mode.

If source video is not played in fullscreen please change recording mode to **Active desktop region**  and adjust your region size and position to fit the source video picture.

Enable **Snap to windows**  option (hotkey: **S**) to easily fit your region to source video area.

## Start recording

Start source video playback and press start recording icon  or press **F9** on keyboard to start desktop video recording. You can stop video recording by pressing recording icon or **F9** hotkey again.



Recording video in **Active desktop region** recording mode


# WEB VIDEOS RECORDING WITH PERFECT VIDEO MATCH MODE

## Introduction

**Perfect Video Match** mode is dedicated to record web videos or videos from various media players and it provides a perfect match of recorded framerate with source video framerate.

## Detecting framerate

To use **Perfect Video Match** mode it is required to set a proper **Video framerate** in Video recording options, the framerate value must match source video framerate. If you do not know the original video framerate you can detect it with Action!.

To detect source video framerate change recording mode to **Active desktop region**  and adjust your region size and position to include source video picture only. Start source video playback and press **Ctrl+F9** hotkey to start framerate detection.

Action! HUD status icon will change and HUD will display detected framerate. Press **Ctrl+F9** hotkey again to stop framerate detection.

 Detecting framerate


## Recordings options


### Video framerate

Set video framerate to source video framerate and make sure to enable **Perfect Video Match** mode.


## Recording mode

For fullscreen web videos recording select **Active desktop**  mode.

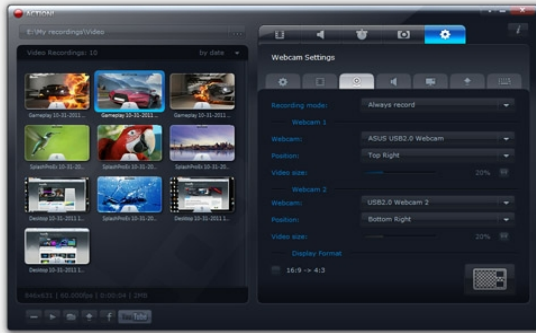
If source web video is not played in fullscreen change recording mode to **Active desktop region**  and adjust your region size and position to fit the source video picture.

For media players video recording set **Games & applications**  mode.

## Start recording

Start source video playback and press start recording icon  or press **F9** on your keyboard to start desktop video recording. You can stop video recording by pressing recording icon or **F9** hotkey again.

# ADDING WEBCAMS TO VIDEO RECORDINGS



Action! Webcam Settings



Dual webcam recording

**Action!** allows to add picture from webcams and other capturing devices to all real-time gameplay and desktop recordings.

Open **Webcam Settings** to setup webcam recording. Webcam settings allow to select webcam device and set webcam picture position and size in final video recording.

Adding webcam is very easy with user friendly options and webcam preview screen. To open webcam preview screen please use the following button:

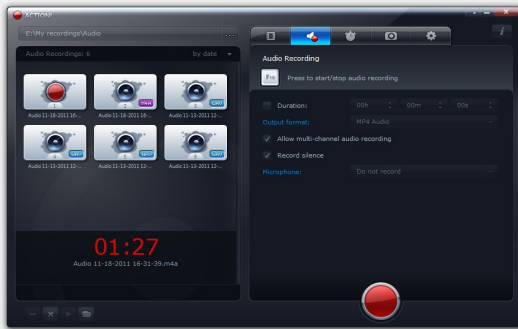


***TIP:** With Action! it is possible to add picture from 2 different webcams at the same time!*

# AUDIO RECORDING

## Introduction

Action! can record everything you hear on your PC. Audio recording function allows to record music and audio sounds from games, applications or videos. Using microphone you can easily create podcasts.



Action! window  
Audio recording in progress

## Recording options

### Duration

Enable this option when you want to record audio for a specific time duration.

### Output format

You can select **WAV** or **MP4 Audio** output format. **MP4 Audio** format makes your recordings compact and ready to playback with modern audio playback devices.

### Allow multi-channel audio recording

When enabled allows multi-channel audio recording (i.e. 5.1 audio).


### Record silence

Activate this option to let Action! record audio even when there is no system sound playing.

### Microphone

Enable microphone to add live audio commentary to your audio recordings.

## Start recording

Press start recording icon  or press **F10** on keyboard to start audio recording. You can stop audio recording by pressing recording icon or **F10** hotkey again.

# VIDEO & AUDIO RECORDINGS PLAYBACK




Video tab manager



Splash PRO EX playback

## Video recordings playback

Action! includes internal fast player dedicated for video recordings playback.


Select a video recording and click play icon  or use mouse double click on a thumbnail to start video recording playback.

To playback all Action! video recordings in AVI and MP4 format you can also use one of Splash media players. Splash PRO and Splash PRO EX provide additional features like SmartSeek, Audio boost, Screen capture and more.

All Splash products are available for download at Mirillis website:

<http://mirillis.com/en/downloads/>

## Audio recordings playback

Select an audio recording and click play icon  or use mouse double click on a thumbnail to start recording playback.

Audio recording will be played using system default application for WAV/ M4A audio file format.

# BENCHMARKING


## Introduction

Action! allows to benchmark desktop and all supported DirectX or OpenGL games and applications performance. Benchmark results are saved in popular CSV file format.



Action! window  
Benchmarking in progress...

## Benchmark files



Select a benchmark file in manager list and click open icon  or use mouse double click on a thumbnail to view selected benchmark results. Benchmark file will be opened using system default application for CSV file format.

## Benchmarking options

### Duration

Enable this option when you want to record benchmark results for a specific duration.

## Start benchmarking


Press start benchmarking icon  or press **F11** on keyboard to start recording benchmark results. You can stop benchmarking by pressing icon  or **F11** hotkey again.

Benchmark button is not available for ***Games & applications*** recording mode selected in Video recordings tab. Please note that in this mode game or application must be active to start or stop benchmarking using a hotkey.

# CAPTURE SCREENSHOTS

## Introduction

Action! allows to capture screenshots of your desktop and all supported DirectX or OpenGL games and applications.

Select a screenshot in manager list and click open icon  or use mouse double click on a thumbnail to view selected screenshot.



Action! window  
Capture screenshots tab

## Capture options

### File format


Allows to select one of available output file formats: BMP, PNG, JPG.


Current Action! version provides only BMP format for screenshots in ***Games and applications*** mode.

### Screenshot area

For multi-display setups it is possible to select to capture a screenshot from all desktops or from a single desktop only. This option is available for ***Active desktop*** recording mode selected in Video Recording tab.

## Capture screenshot

Press capture screenshot button  or press **F12** on your keyboard to capture a screenshot.

Capture screenshot button  is not available for ***Games & applications*** recording mode selected in Video recordings tab. Use **F12** hotkey to capture screenshots of your active games and applications.



# EXPORT RECORDINGS - INTRODUCTION




Export window - Export settings



## Introduction

Action! allows to export your video recordings to all popular formats and devices. Your video recordings are exported to **MP4** file format and the exported video is coded using **H.264/AVC** video compression standard (the maximum supported output resolution is 1920x1080), exported audio is coded using **AAC** compression standard (supported outputs are Stereo or 5.1).

## Export window

To start exporting select a recording on your recordings list and click **Export** button . To hide all Action! windows click “hide” icon in the top right corner of the Export window. Use “close” icon to close the window, using “close” icon will stop all exporting or uploading processes.

## Exporting to YouTube and Facebook

YouTube and Facebook export profiles contain 2 settings pages (export and upload settings) and automatically upload the exported file after export process is completed. Use   buttons to navigate through YouTube profile settings pages.



# EXPORT RECORDINGS - SETTINGS



Export window - Export in progress

## Output profile

Action! output profiles contain popular video resolutions and pre-defined profiles for popular devices providing fast and easy exporting setup.

## Video quality

Available video quality settings:

- Fast
- Normal
- High

Using video quality settings you can also change the output video resolution for pre-defined profiles.

## Video bitrate

Action! default video bitrate setting provides high quality video. You can lower the video bitrate setting to create smaller files or set higher bitrate for better video quality.

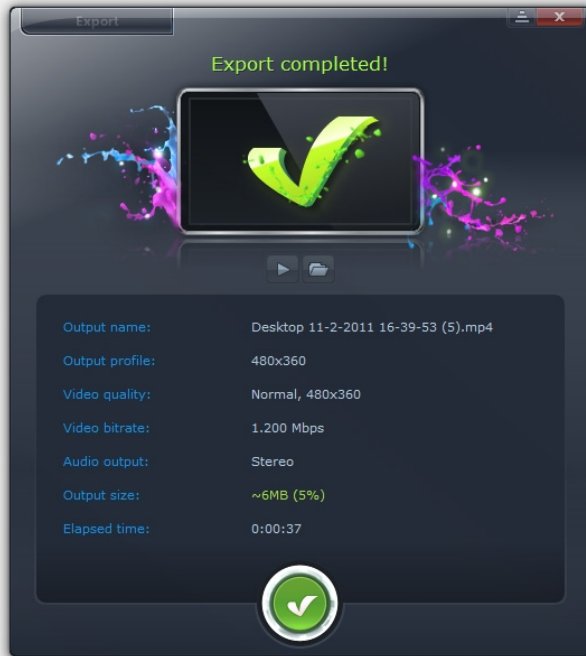
## Audio Track and Output

With audio settings you can disable audio output.

## Output size

Shows the estimated size of exported file. Green color indicates that the exported file will be smaller than the input file, red color indicates that the exported file will be larger than the input file.

# EXPORT RECORDINGS - EXPORT COMPLETED VIEW



Export completed

## Hardware acceleration

The green GPU icon  is displayed whenever hardware acceleration for video encoding is used during exporting.

## Export completed

Export completed view contains short information about exported file and icons providing fast access to popular actions:



PLAY

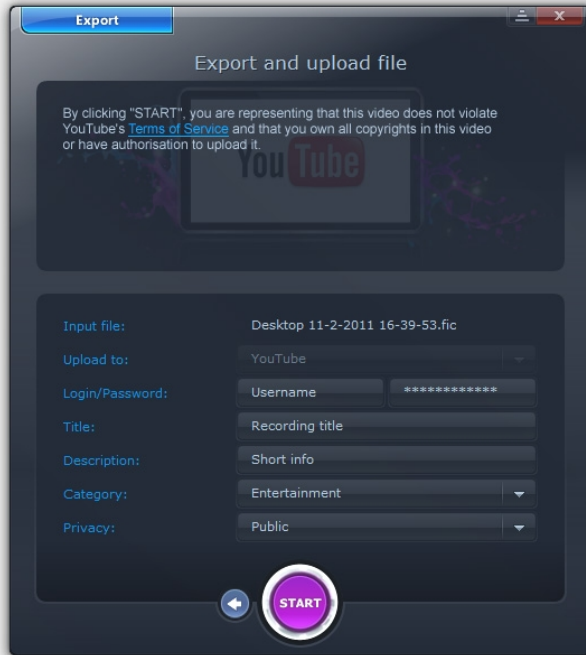
Starts playback of the exported file.



OPEN FOLDER



Opens the folder where the exported file has been saved.

# EXPORTING TO YOUTUBE



YouTube upload setup

## YouTube profile

To export and upload video recording to YouTube please select a recording in main Action! window and click  button. In Export window YouTube profile will be automatically selected, click next button  to show YouTube settings page.

## Login and password

Enter your login/username and password for selected service. Your login will be remembered by default. If you want to remember your password please enable the ***Remember password*** option in Action! Settings (Export tab).

## Privacy

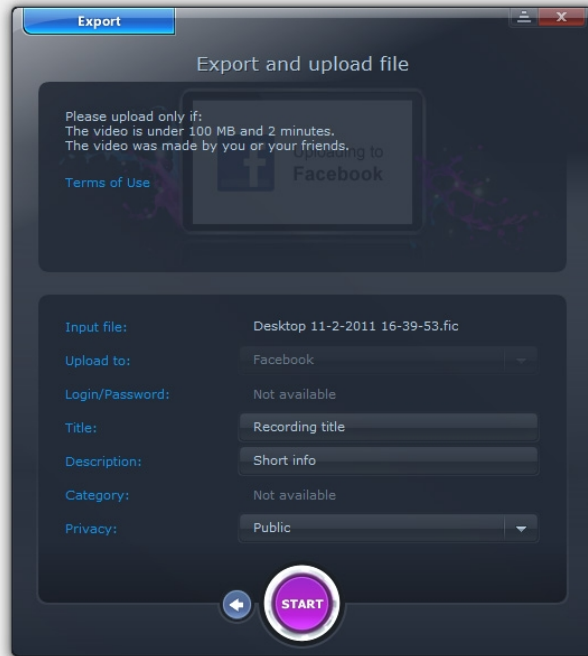
Public (anyone can search for and view - recommended)

Unlisted - means that only people who know the link to the video can view it. The video will not appear in any of YouTube's public spaces, such as search results, your channel, or the Browse page, but the link can be shared with anyone.

Private (only specific YouTube users can view)



Please read the Terms of Use displayed at the top of the window and press START button to upload a file to the selected service.

# EXPORTING TO FACEBOOK



Facebook upload setup

## Facebook profile

To export and upload video recording to Facebook please select a recording in main Action! window and click  button. In Export window Facebook profile will be automatically selected, click next button  to show Facebook settings page.

## Privacy controls:

Public (Everyone)  
Private  
Friends Only  
Friends of Friends

Please read the Terms of Use displayed at the top of the window and press START button to login to Facebook and upload a file.

## Facebook Login

Facebook Login window appears after pressing START button. Login to your Facebook account to start the uploading process.

Login is required only once per each Action! startup.

You may be asked for SplashUploader authorization when using Action! for the first time.

# GENERAL SETTINGS



Action! General settings

## LANGUAGE

Allows to change Action! user interface language. After installation Action! automatically sets application language upon your operating system language.

## CHECK FOR UPDATES

This option enables automatic updates. Product update availability is checked on application start and application will ask you to install the update when it is available.

## START APPLICATION MINIMIZED TO TRAY

When you are familiar with hotkeys you can select this option to start Action! minimized to tray. To show Action! window double click Action! tray icon.

## HIDE ACTION! WINDOW ON DESKTOP RECORDING START

Select this option to hide Action! window to tray mode before desktop recording starts.

## SHOW ACTION! WINDOW WHEN DESKTOP RECORDING IS FINISHED

This option shows Action! window when desktop recording is finished. You can immediately start playback, delete recordings or export and upload recordings to popular devices, YouTube or Facebook.

## ENABLE ACTION! REMOTE CONTROL

This option allows to control video recordings with Android devices. Please read more about Action! Remote Control application on **page 34**.

# VIDEO RECORDING SETTINGS



Action! Video recording settings

## VIDEO QUALITY

Allows to select output video quality for your recordings. Select “Low” quality to reduce output file size and increase recording performance.

## INPUT RANGE

For most video recordings it is recommended to use wide input range (0-255). However in some cases (in example web videos or fullscreen videos recording) narrow input range (16-235) may give a better result.

## USE MULTICORE ENCODING

Action! uses an optimized, multicore video encoding algorithm for video recording. In some cases single core encoding may result in better performance. Disable this option to let Action! encode video (during recording) utilizing only a single CPU core.

## RECORD MOUSE CURSOR

This option adds mouse cursor to recorded video.

## VISUALIZE MOUSE CLICKS

This option helps to create fantastic and clear tutorials by adding animated mouse clicks visualizations to recorded video. ***Mouse click visualizations are only available for desktop recordings in original video size.***

## OVERLAY GRAPHICS SETTINGS

Overlay graphics settings allow to add custom logo and other overlay graphics to recorded video.

Supported file formats: **BMP, JPG, PNG (with alpha channel)**


Maximum supported input graphics resolution is **1920x1200**.

# WEBCAM SETTINGS



Action! Webcam Settings

Webcam settings allow to include picture from webcams in gameplay and desktop recordings. Action! allows to record picture from 2 different webcams at the same time.

Preview screen button , available at the bottom of the settings page, opens webcam preview screen showing webcam position and size in video recording.

## RECORDING MODE

This setting allows to:

- disable webcam recording
- enable webcam recording
- enable option to record webcams on button down (default hotkey: **F4**)

## WEBCAM

This setting allows to select webcam or other device to be recorded.

Select “**Do not record**” option to disable webcam recording.

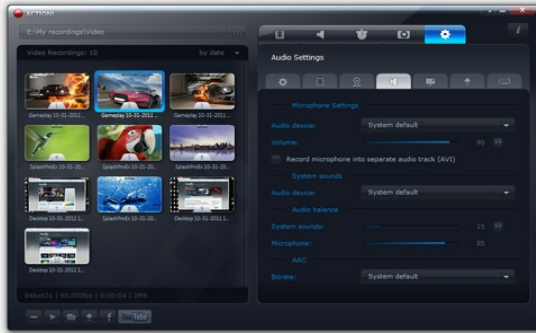
## POSITION

Allows to select webcam destination position.

## VIDEO SIZE

This option allows to control size of the webcam picture in final video recording.

# AUDIO SETTINGS



Action! Audio settings

## MICROPHONE AUDIO DEVICE

This setting allows to select recording device from list of system recording devices.

## MICROPHONE VOLUME

This setting controls the microphone input volume.

## RECORD MICROPHONE INTO SEPARATE AUDIO TRACK

This setting allows to record microphone commentary to separate audio track.


*Recording microphone to separate audio track is available only when recording to AVI file format.*

## SYSTEM SOUNDS AUDIO DEVICE

This setting allows to select audio device from list of system playback devices.

## AUDIO BALANCE

Audio balance controls the balance between microphone and system sounds. Adjust this option to record clear live audio commentary.

Click  icon to reset microphone volume and audio balance to default settings.

## AAC BITRATE

This option is used for M4A audio recordings, MP4 video recordings and video recordings export.



# HUD SETTINGS



Action! HUD settings

## HIDE HUD DURING DESKTOP RECORDING

Enable this option when you do not want HUD to be included in your desktop recordings. With this option enabled Action! hides HUD automatically when desktop recording starts.

## DO NOT RECORD HUD IN GAMES & APPLICATIONS

With this option enabled Action! will display HUD in games and applications, but HUD will not be included in your recordings.

## HIDE HUD ON ACTION! STARTUP

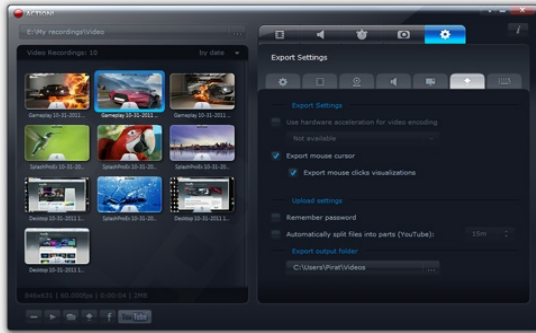
Enable this option to automatically hide HUD on every Action! startup.

## HUD STARTUP POSITION

This setting lets you decide where Action! displays HUD on startup.

When Action! is running you can change HUD display position with a hotkey (default hotkey: **F7**). Please note that changing HUD display position with a hotkey does not change “HUD Startup Position” setting.

# EXPORT SETTINGS



Action! Export settings

## HARDWARE ACCELERATION

Use hardware acceleration for video encoding to speed up exporting process and lower CPU consumption.

## EXPORT MOUSE CURSOR

With this option enabled Action! will include recorded mouse cursor in exported video.

## UPLOAD SETTINGS

Selecting ***Remember password*** option will securely store (in encrypted form) your YouTube account password in Action! configuration files.

## Automatically split files into parts

Enable this option to split your recordings into parts and upload parts separately to meet video duration restrictions on your YouTube account.

## EXPORT OUTPUT FOLDER

This option lets you change the destination folder for exported files.


# HOTKEYS SETTINGS



Action! Hotkeys settings

## HOTKEYS

To change a hotkey move your mouse cursor over specific hotkey field and press keyboard buttons to enter new hotkey.

Please press  button to show next hotkeys settings page.

Hotkeys provide fast access for the **most important Action! features:**

- Start / Stop video recording
- Start / Stop audio recording
- Start / Stop Benchmarking
- Capture Screenshots
- Reset average framerate
- Show / Hide HUD panel
- Change HUD display position
- Change active desktop
- Enable microphone recording
- Detect framerate
- Pause/Resume video recording
- Cancel Recording
- Add Bookmark
- Mark recording as favorite
- Record webcam

## DEFAULT HOTKEYS

All default hotkeys are available in the next section ***Default hotkeys.***

# ACTION! REMOTE CONTROL APPLICATION



Action! Remote Control Application  
Recording in progress

## ACTION! REMOTE CONTROL

Action! Remote Control application allows to control your Action! gameplay and screen recordings with Android mobile devices!

## MAIN FEATURES

- start, stop and pause video recordings
- display framerate statistics
- display recording time
- display free disk space

## DOWNLOAD AND INSTALLATION

Action! Remote Control application is free to download. Please use the following link to download and install Action! Remote Control application for your Android device:

[http://mirillis.com/en/products/action\\_remote\\_control.html](http://mirillis.com/en/products/action_remote_control.html)

# DEFAULT HOTKEYS

## BASIC ACTIONS

Start / Stop video recording	F9
Start / Stop audio recording	F10
Start / Stop benchmarking	F11
Capture Screenshots	F12
Change active desktop	F8
Detect framerate	Ctrl+F9
Pause/resume video recording	Shift+F9
Reset Action! window position	0
Cancel video recording	Ctrl+Del
Add bookmark	Ctrl+B
Mark video recording as favorite	Ctrl+F

## ACTION! HUD

Reset average framerate	F5
Show / Hide FPS panel	F6
Change FPS panel position	F7

## REGION CONTROL

Move region	Arrows
Resize region	Shift+Arrows
Snap to windows ON / OFF	S
Default region position and size	0

## ACTION! PLAYER SHORTCUTS

Play/Pause	Space
Stop	S
Open Next File	PageDown, Ctrl+ArrowDown
Open Previous File	PageUp, Ctrl+ArrowUp
Frame by frame	F
Jump Forward	ArrowRight
Jump Backward	ArrowLeft
Jump Forward (x2)	Shift + ArrowRight
Jump Backward (x2)	Shift + ArrowLeft
Loop On/Off	L
Volume Up	+
Volume Down	-
Mute On/Off	M
Next audio track	A
Enter Full-screen	Enter
Exit Full-screen	Enter, Esc
Default Window Size	0
50%, 100%, 200% Video Size	~, 1, 2
Show file information	i
Exit	Alt+F4, Shift+X

## MICROPHONE / WEBCAM

Enable microphone / webcam recording	F4
--------------------------------------	----

# OPERATING SYSTEMS RESTRICTIONS

Operating systems and hardware configurations restrictions.

Windows Vista®, Windows 7,  
Windows 8

Windows® XP

Action! is not available for Windows® XP.

## DESKTOP RECORDING

Not available with Windows Aero disabled on Windows Vista and Windows 7

## RECORDING WEB AND MEDIA PLAYERS VIDEOS

May not be available for copy protected HD content

# TROUBLESHOOTING

## Performance

### PERFORMANCE

If you experience any performance problems during recording or your recorded video is not smooth please try one of the following solutions:

- change recording file format to AVI if MP4 is selected
- reduce output video size
- reduce output video framerate
- hide FPS panel
- try with “Use multicore encoding” enabled and disabled

### MULTIDISPLAY PERFORMANCE

If you experience any performance problems on multidisplay setup and the above general performance solutions do not work please try the following solution:

- disable/disconnect one (or more) display device(s).

## Recording

### GAMES & APPLICATIONS RECORDING

If you experience any problems with games and applications recording please try to run a game or application in windowed mode and try recording with *Active desktop region* mode.

# TECHNICAL AND CUSTOMER SUPPORT

## Purchase/Activation FAQ

If you have any questions or problems with Action! purchase or activation, please read the product purchase and activation FAQ or contact us if you do not find an answer for your problem/question.

**Prurchase/ Activation FAQ page:**

[http://www.mirillis.com/en/support/purchase\\_faq.html](http://www.mirillis.com/en/support/purchase_faq.html)

## Technical Support

If you have any questions or problems with Action! please read Action! FAQ or contact us if you do not find an answer for your problem/question.

**Action! FAQ page:**

[http://www.mirillis.com/en/products/action\\_faq.html](http://www.mirillis.com/en/products/action_faq.html)

## Mirillis Forum

Join Mirillis community and discuss about Action! and other Mirillis products. If you have a problem or questions not answered on FAQ pages you may find an answer on the forum. Feel free to share with us your experience, ideas and suggestions.

**Mirillis Forum:**

<http://www.mirillis.com/forum/>

## Contact

<http://www.mirillis.com/en/company/contact.html>